

Please type a plus sign (+) inside this box

PTO/SB/08A (10-86)

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 4

<i>Complete If Known</i>	
Application Number	08/944,850
Filing Date	October 6, 1997
First Named Inventor	D.R. Walt
Group Art Unit	1313
Examiner Name	Not Assigned
Attorney Docket Number	TU97-01

U.S. PATENT DOCUMENTS

Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		U.S. PATENT DOCUMENTS		Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	
	AA	5690894		Pinkel, et al.	11/25/97	
	AB	5491997		Pope	3/5/96	
	AC	5573909		Singer, et al.	11/12/96	
	AD	4499032		Fulwyer	2/12/85	
	AE	5028545		Soini	7/2/91	
	AF	5252494		Walt	10/12/93	
	AG	5114804		Walt	5/19/92	
	AH	5633972		Walt, et al.	5/27/97	
	AI	5512490		Walt, et al.	4/30/96	
	AJ	5920814		Walt, et al.	6/14/94	
	AK	5398741		Walt, et al.	3/29/94	
	AL	5250264		Walt, et al.	10/5/93	
	AM	5254477		Walt	10/19/93	
	AN	5244813		Walt, et al.	9/14/93	
	AO	5244030		Walt, et al.	9/14/93	
	AP	5143853		Walt, et al.	9/1/92	
	AQ	4822746		Walt	4/18/89	
	AR	5002807		Macevicz	3/26/91	
	AS	5814524		Walt, et al.	9/29/98	
	AT	5105305		Betzig, et al.	4/14/92	

FOREIGN PATENT DOCUMENTS

**Examiner
Signature**

NOT CONSIDERED

Date _____
Considerations _____

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and note considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for Form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary.)

She

2

of

4

Complete if Known

Application Number	08/944,850
Filing Date	October 6, 1997
First Named Inventor	D.R. Walt
Group Art Unit	1313
Examiner Name	Not Assigned
Attorney Docket Number	TU97-01

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Signature **NOT CONSIDERED** **Date Considered**

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box

PTO/SB/08B (10-96)
Applicable through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

3 of 4

Complete If Known

Application Number	08/944,850
Filing Date	October 6, 1997
First Named Inventor	D.R. Walt
Group Art Unit	1313
Examiner Name	Not Assigned
Attorney Docket Number	TU97-01

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials'	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T?
	LA	E.J.A. Pope, "Fiber Optic Chemical Microsensors Employing Optically Active Silica Microspheres", SPIE, v2388, p245-256 (1995)	
O I P E FEB 14 2000 RKA PATENT & TRADEMARK OFFICE	LB	J.I. Peterson, et al., "Fiber Optic pH Probe for Physiological Use", Anal. Chem., v52, no 6, May 1980, p864-869	
	LC	Anonymous, "Fluorescent Microspheres", Tech Note 19, Bang Laboratories, (Fishers, IN) February 1997	
	LD	L.B. Bangs, "Immunological Applications of Microspheres", The Latex Course, Bangs Laboratories (Carmel, IN) April 1996	
	LE	Anonymous, "Microsphere Selection Guide", Bangs Laboratories (Fishers, IN) September 1998	
	LF	J.A. Ferguson, et al., "A Fiber-Optic DNA Biosensor Microarray for the Analysis of Gene Expression", Nature Biotechnology, v. 14, pp 1681-1684 (December 1996)	
	LG	B.G. Healey, et al., "Fiber Optic DNA Sensor Array Capable of Detecting Point Mutations", Analytical Biochemistry, v. 251, no. 2, pp270-279 (1997)	
	LH	B.G. Healey, et al., "Development of a Penicillin Biosensor Using a Single Optical Imaging Fiber", SPIE Proc., v. 2388, pp 568-573 (1995)	
	LI	B.G. Healey, et al., "Improved Fiber-Optic Chemical Sensor for Penicillin, Anal. Chem. v. 67, no. 24, pp 4471-4476 (December 15, 1995)	
	LJ	D.R. Walt, "Fiber-Optic Sensors for Continuous Clinical Monitoring", Proc. IEEE, v.80, no.6, pp903-911 (June 1992)	
	LK	N.J.C. Strachan, et al., "A Rapid General Method for the Identification of PCR Products Using a Fibre-Optic Biosensor and Its Application to the Detection of Listeria", Lett. Applied Microbiology, v. 21, pp 5-9 (1995)	

Examiner
Signature

NOT CONSIDERED

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			
(use as many sheets as necessary)			
Sheet	4	of	4
		Application Number	08/944,850
		Filing Date	October 6, 1997
		First Named Inventor	D.R. Walt
		Group Art Unit	1313
		Examiner Name	Not Assigned
		Attorney Docket Number	TU97-01

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Signature	NOT CONSIDERED	Date Considered	
-----------------------	----------------	--------------------	--

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.